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(54) Title: METHOD AND APPARATUS FOR PROCESSING CONDITIONAL BRANCH INSTRUCTIONS

(57) Abstract: In the programming of a microcontroller (100) carried out in at least one machine-dependent assembly language in which the assembler commands, with the exception of conditional program branches, are executable essentially independently of data, - in case of a fulfilled branch condition, for example, at least one fulfilled status flag, at least one program counter (10) is loadable with a new address and/or a new value, and- in case of an unfulfilled branch condition, for example, at least one unfulfilled status flag, the instruction is ended. To further develop said programming, together with a method for processing the programming of the microcontroller (100) carried out in at least one machine-dependent assembly language, in such a way that it is invisible from outside whether or not, in the case of a conditional program branch, said branch has actually taken place, it is proposed that, in the case of an unfulfilled branch condition, the program counter (10) is optionally re-loadable with its previous address and/or with its previous value, instead of ending the instruction.

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INTERNATIONAL SEARCH REPORT

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KOCHER P C ED - KOBLITZ N (ED) INTERNATIONAL ASSOCIATION FOR CRYPTOLOGIC RESEARCH: "TIMING ATTACKS ON IMPLEMENTATIONS OF DIFFIE-HELLMAN, RSA, DSS, AND OTHER SYSTEMS" ADVANCES IN CRYPTOLOGY - CRYPTO '96. 16TH. ANNUAL INTERNATIONAL CRYPTOLOGY CONFERENCE. SANTA BARBARA, AUG. 18 - 22, 1996. PROCEEDINGS, PROCEEDINGS OF THE ANNUAL INTERNATIONAL CRYPTOLOGY CONFERENCE (CRYPTO), BERLIN, SPRINGER, DE, vol. CONF. 16, 18 August 1996 (1996-08-18), pages 104-113, XP000626590 ISBN: 3-540-61512-1</p> <p>-----</p>	

INTERNATIONAL SEARCH REPORT

Information on patent family members

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